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Title: METHODS AND APPARATUS FOR IMPROVING THE QUALITY OF DISPLAYED IMAGES THROUGH THE USE OF

DISPLAY DEVICE AND DISPLAY CONDITION INFORMATION

Inventors: Bodin Dresovic, William Hill, Gregory C. Hitchcock, Leroy B. Keely, John C. Platt, and J. Turner Whitted

Docket No.: 14984.12.1.1 / Serial No.: 10/691,121 / Filing Date: 10/22/2003

REPLACEMENT SHEET

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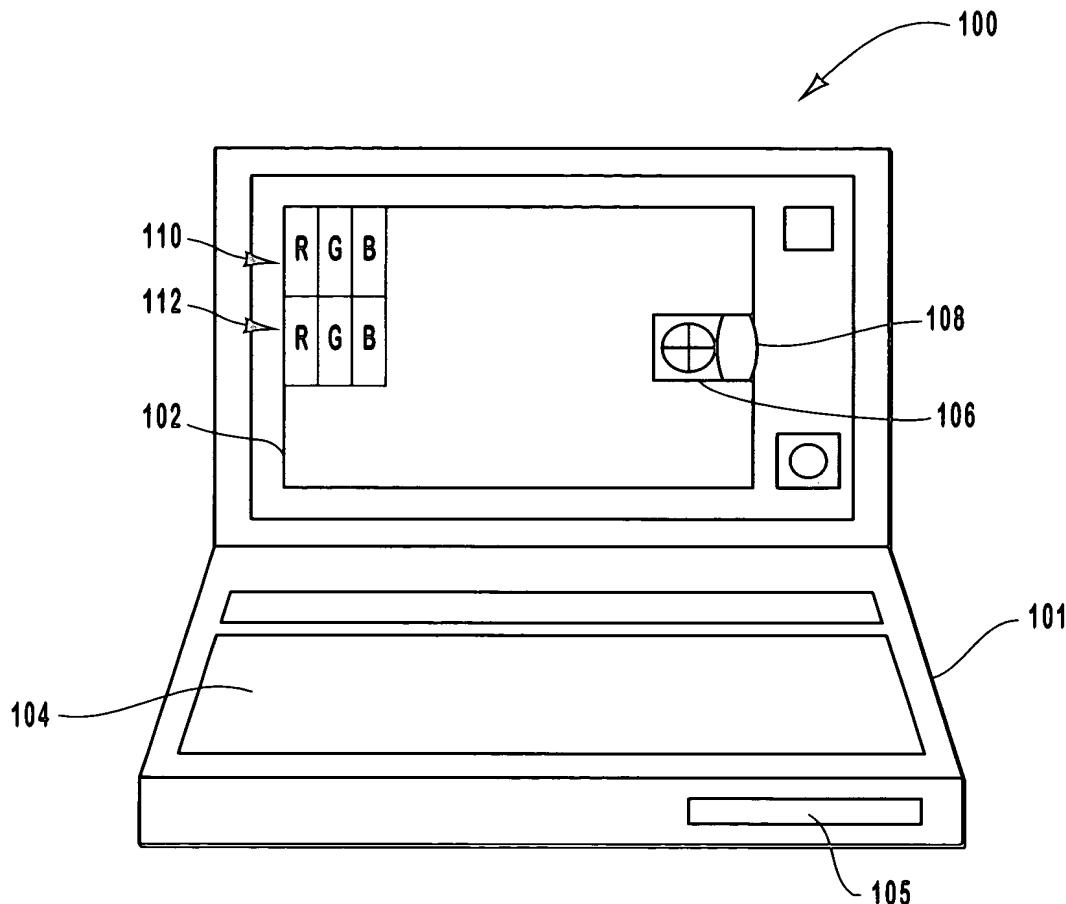


FIG. 1

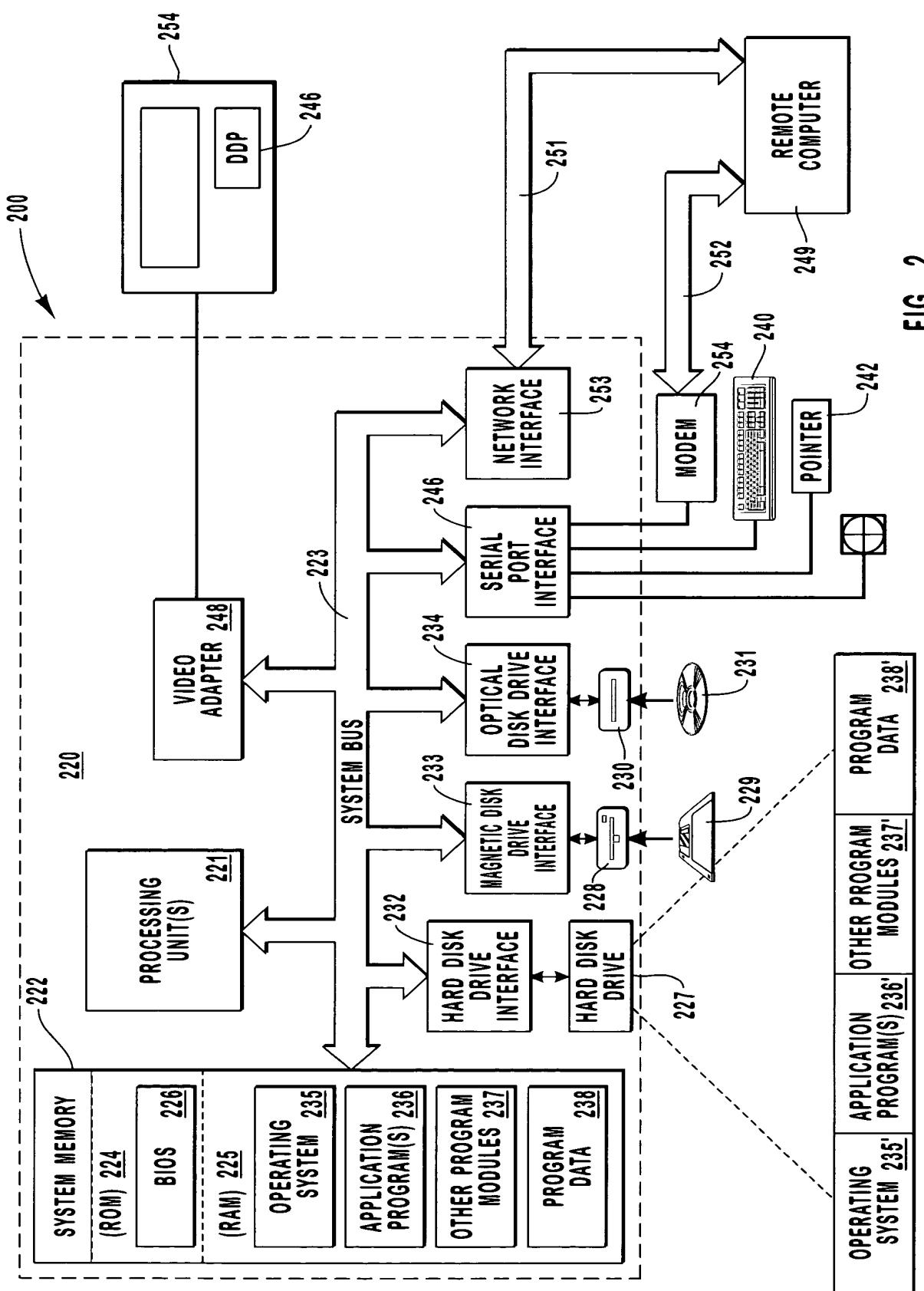


FIG. 2

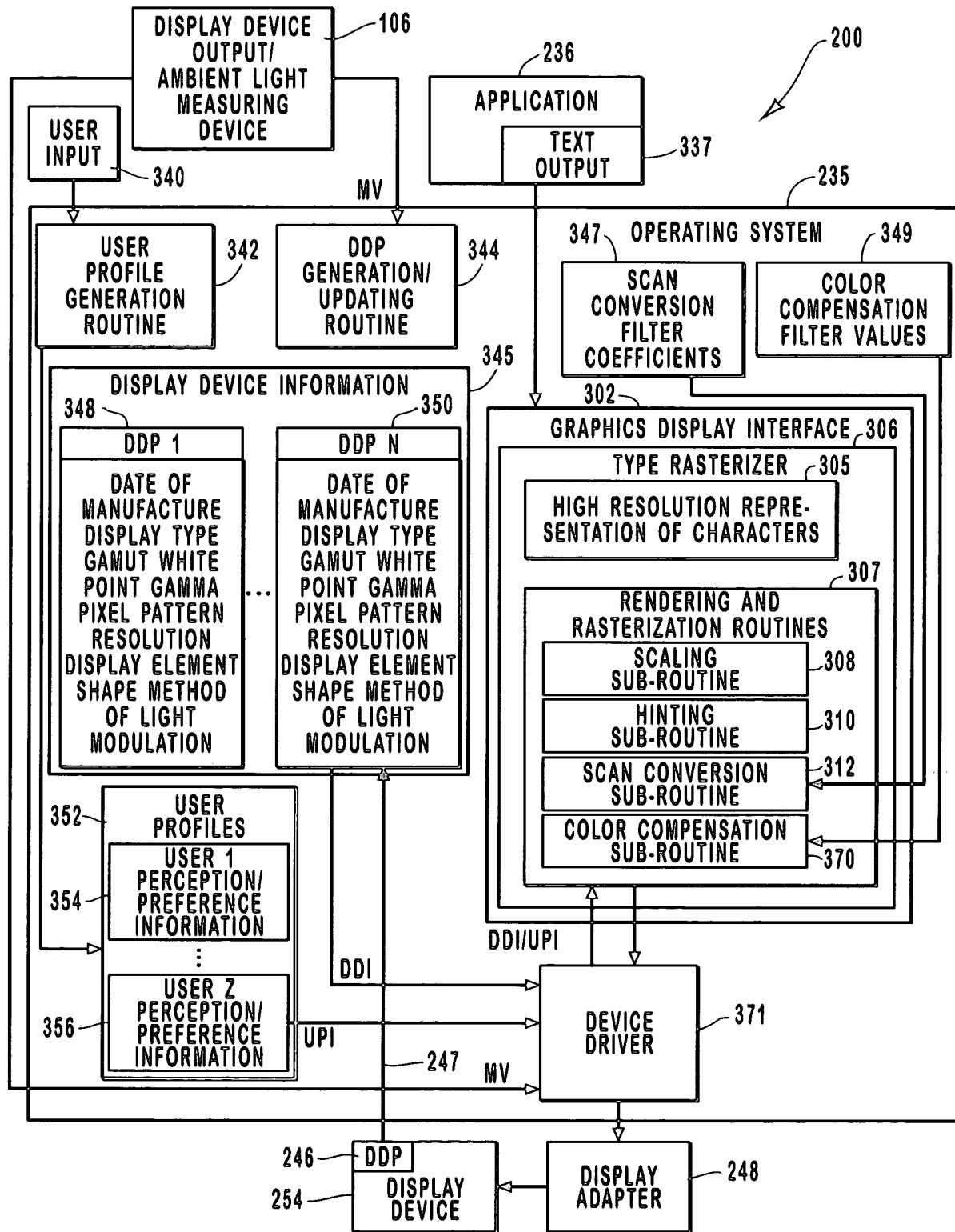


FIG. 3

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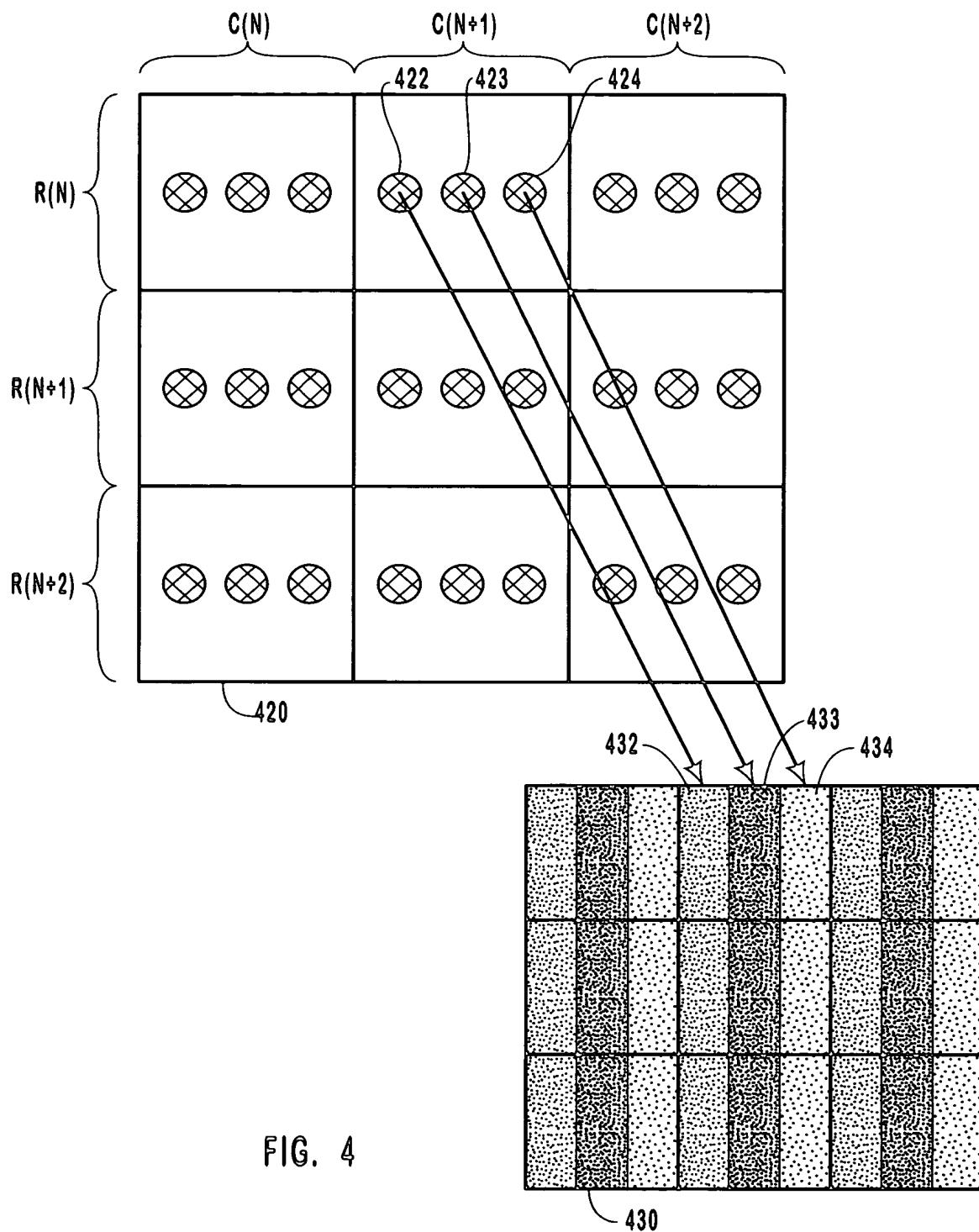


FIG. 4

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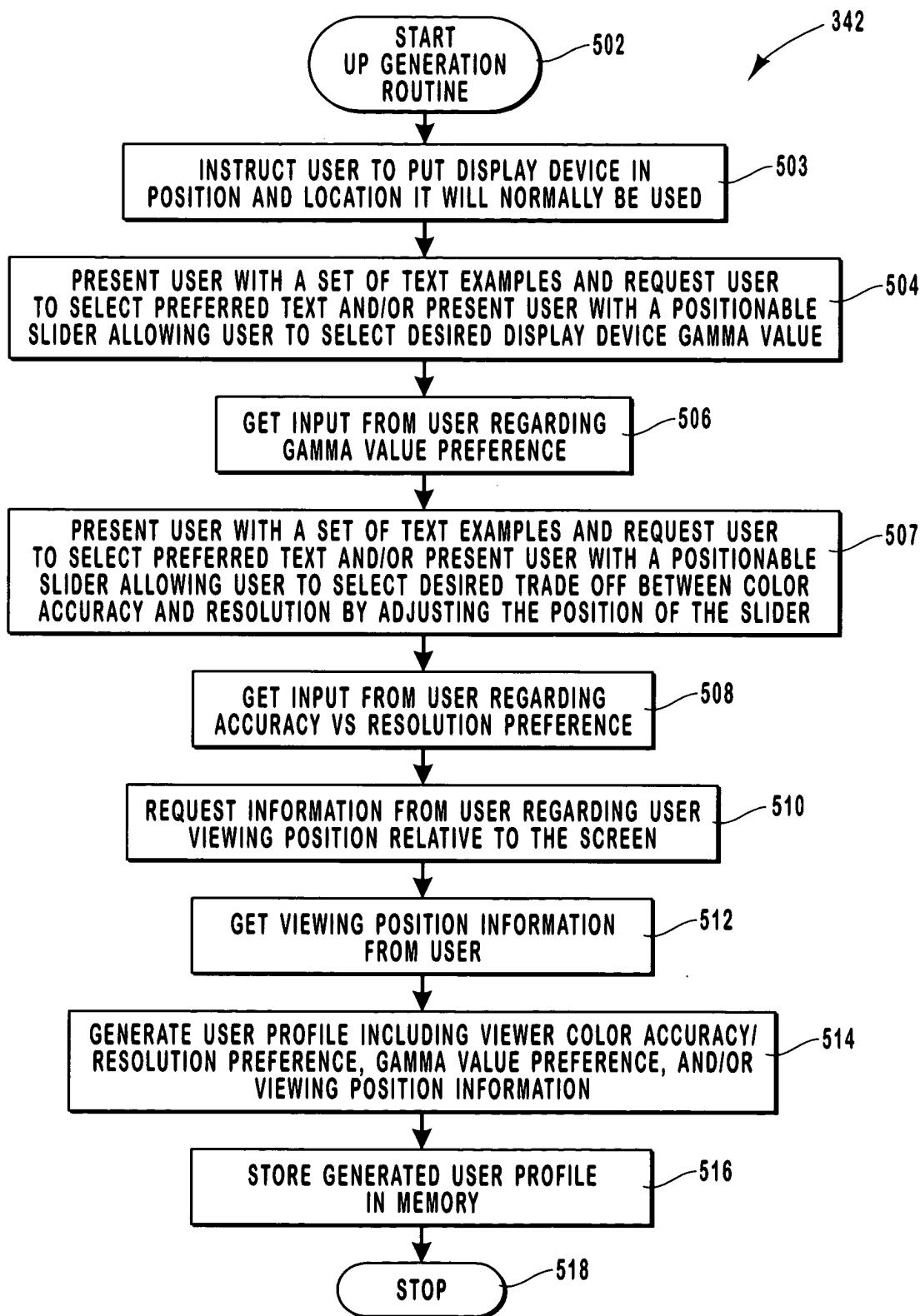


FIG. 5

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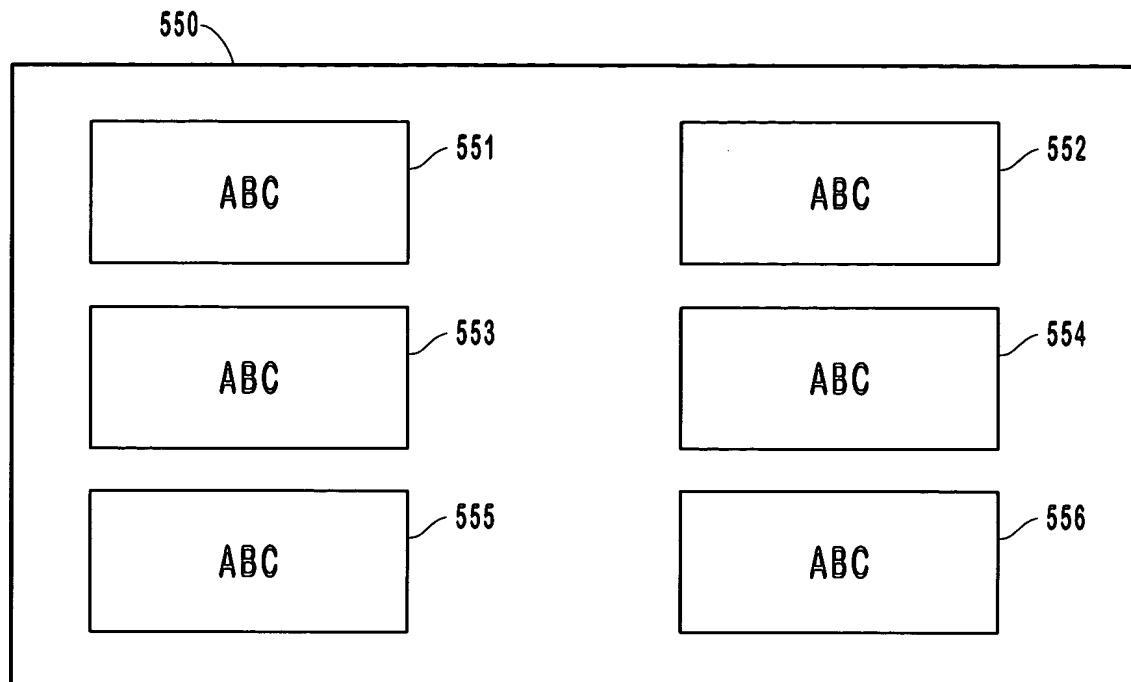


FIG. 6

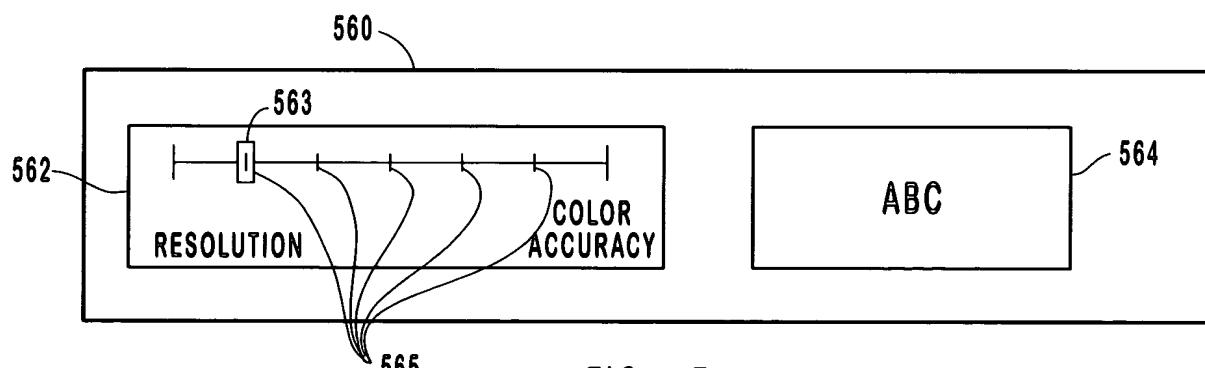


FIG. 7

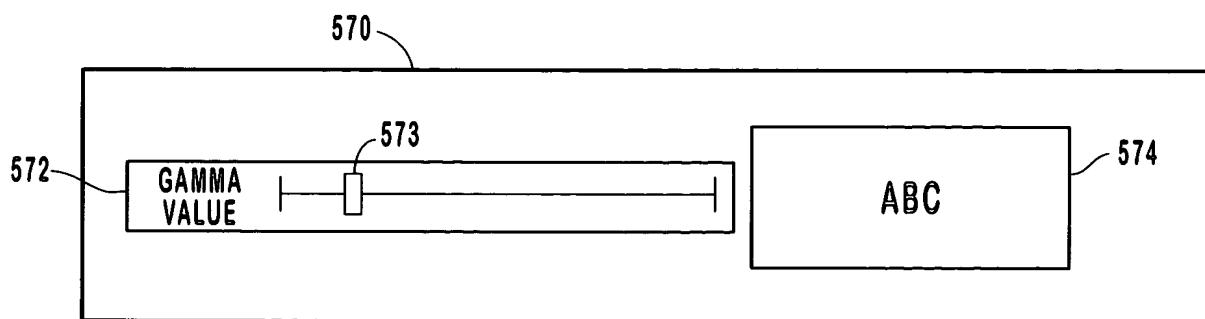


FIG. 8

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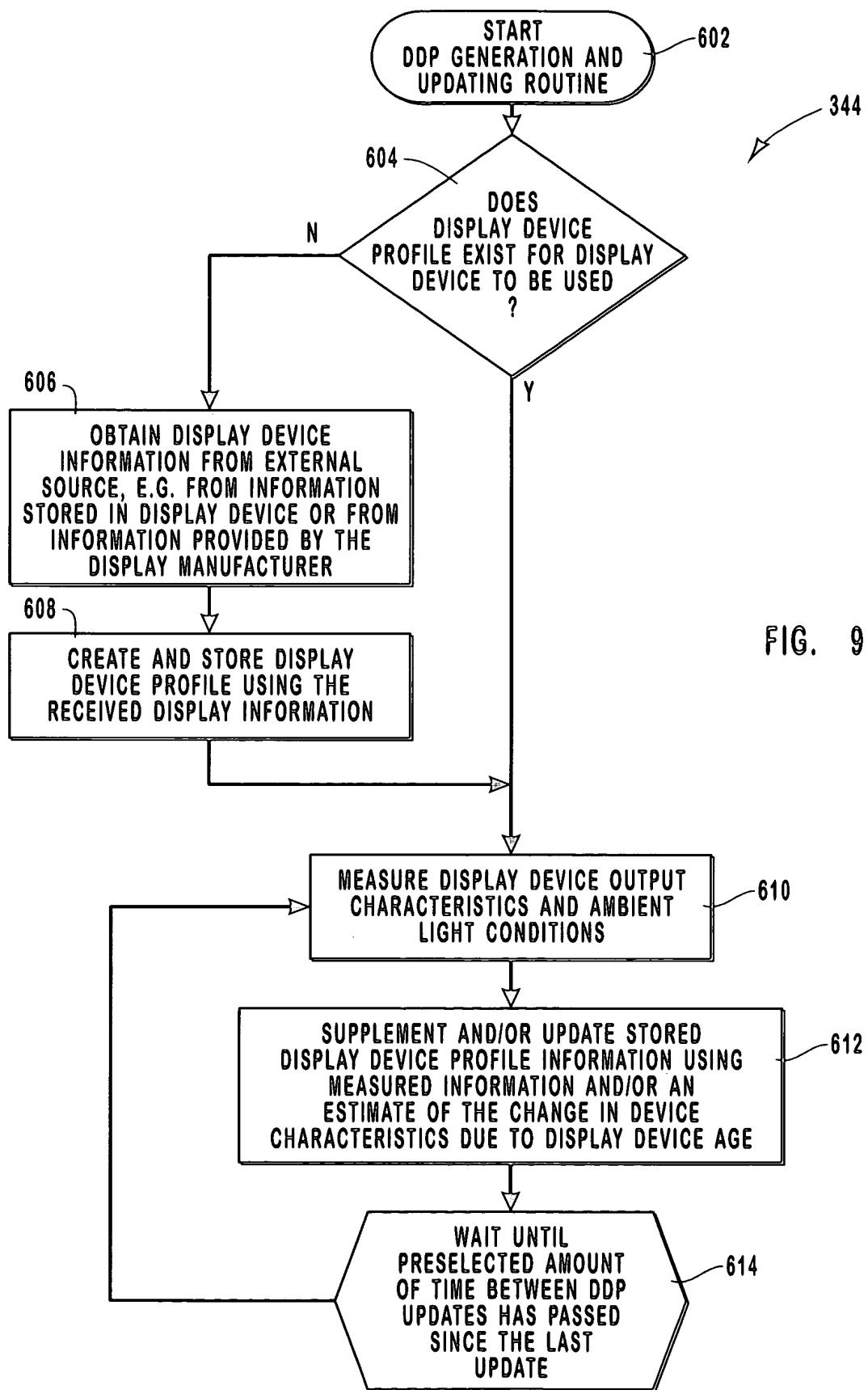


FIG. 9

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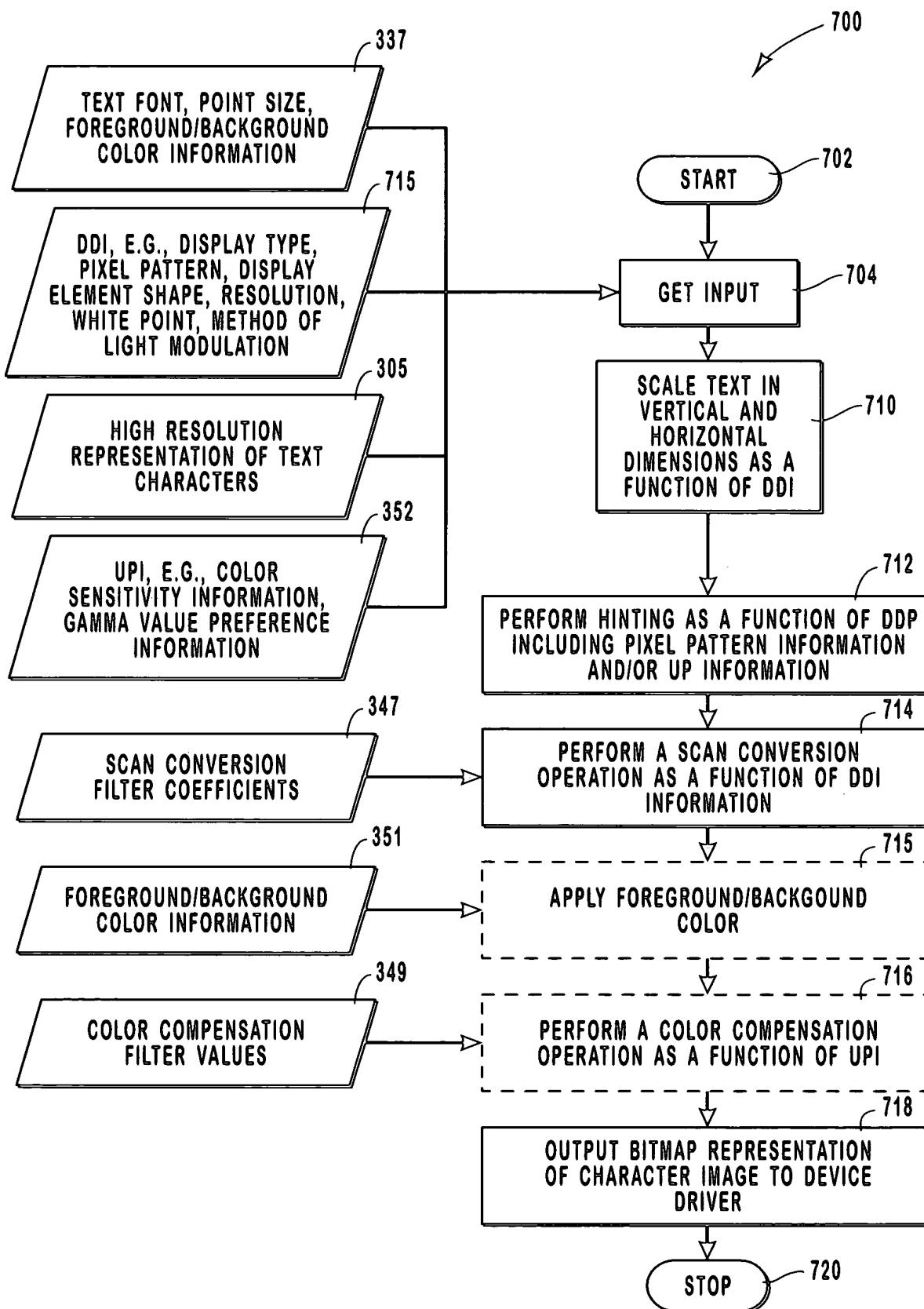


FIG. 10

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REPLACEMENT SHEET

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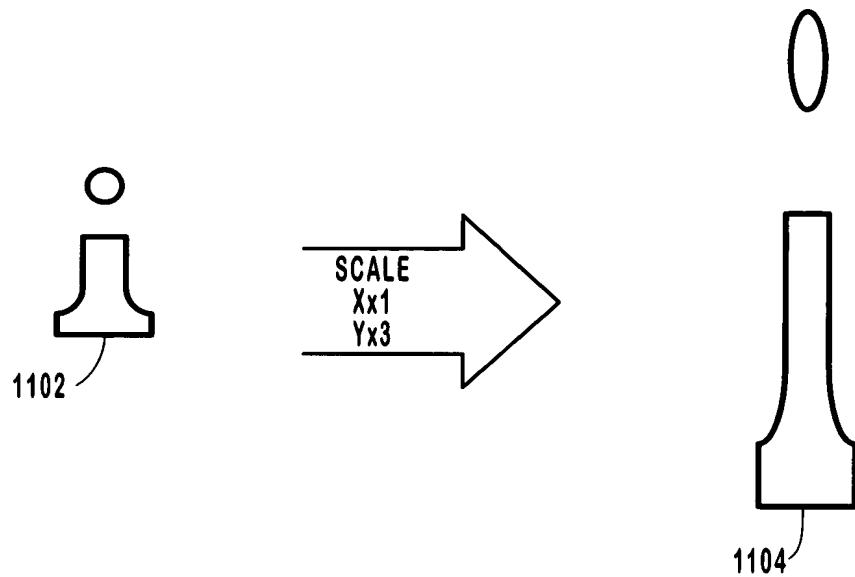


FIG. 11

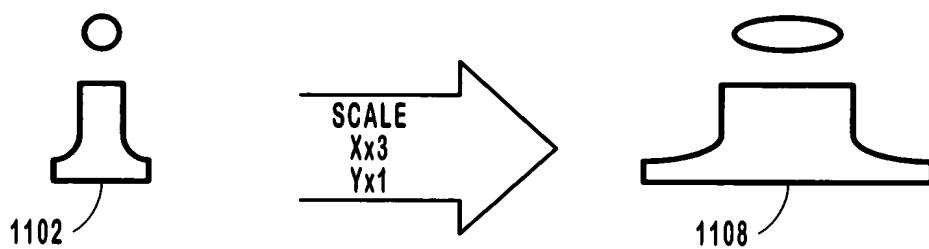


FIG. 12

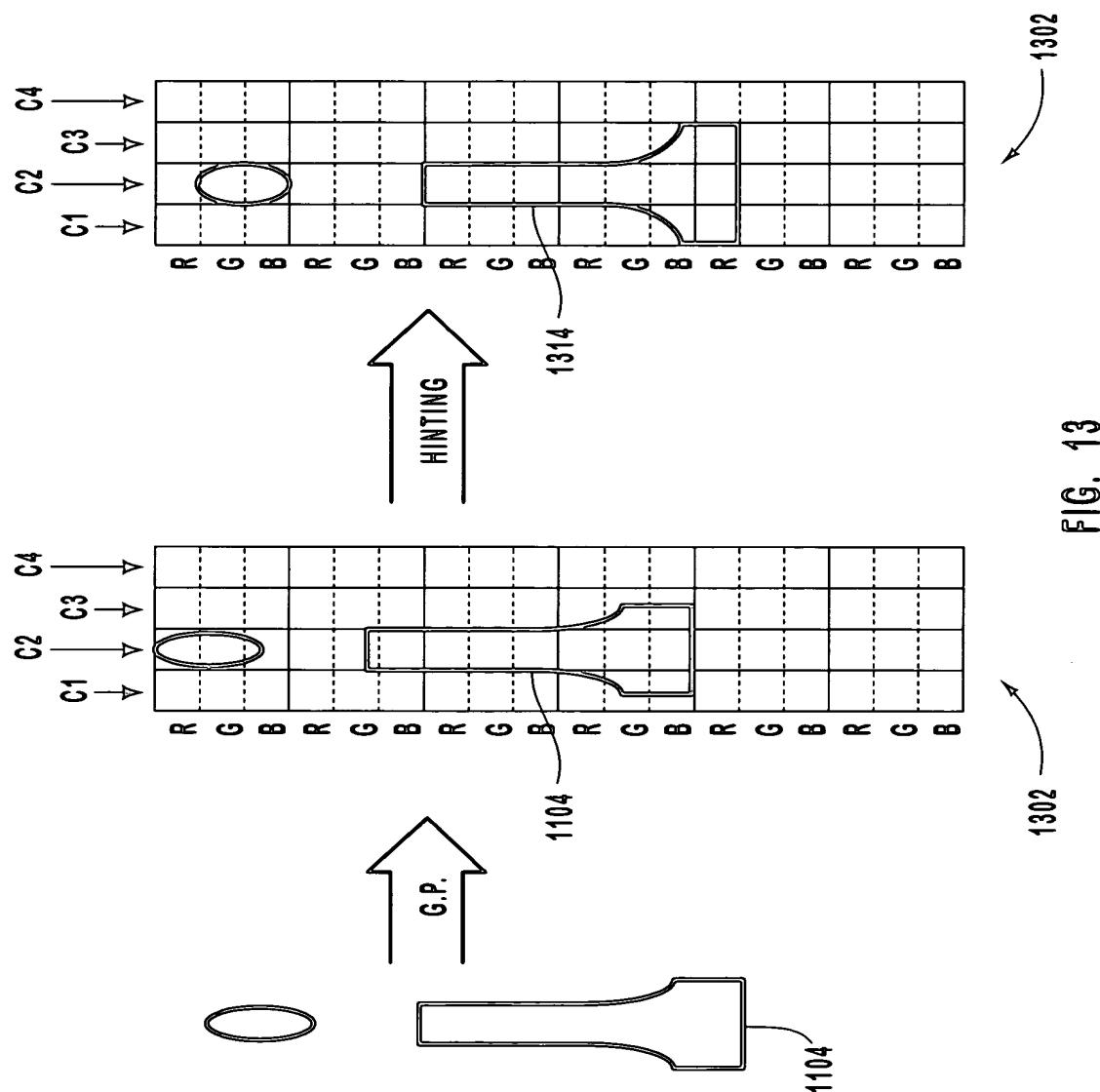


FIG. 13

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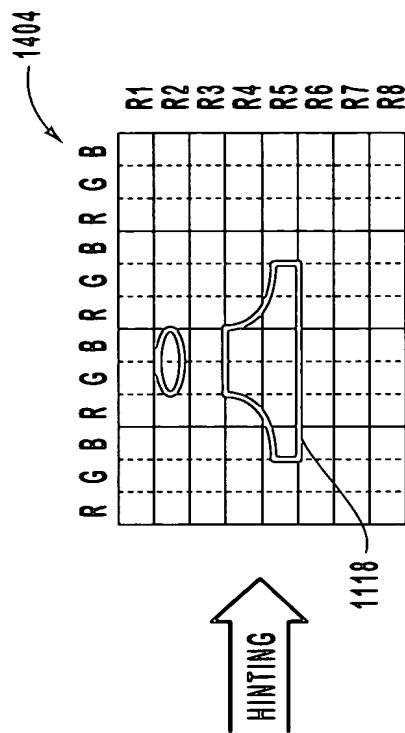
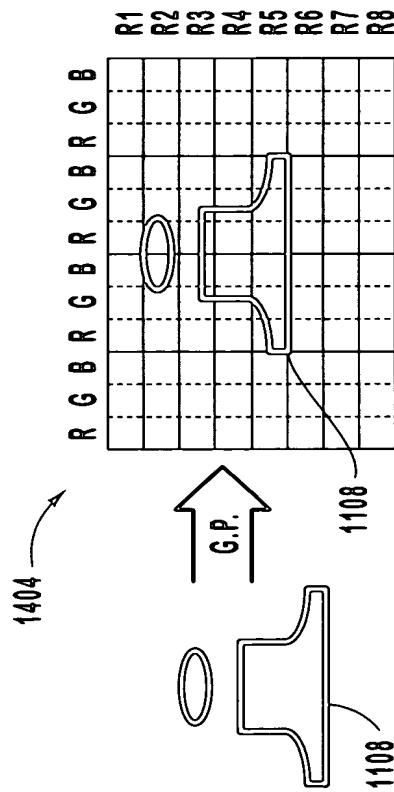
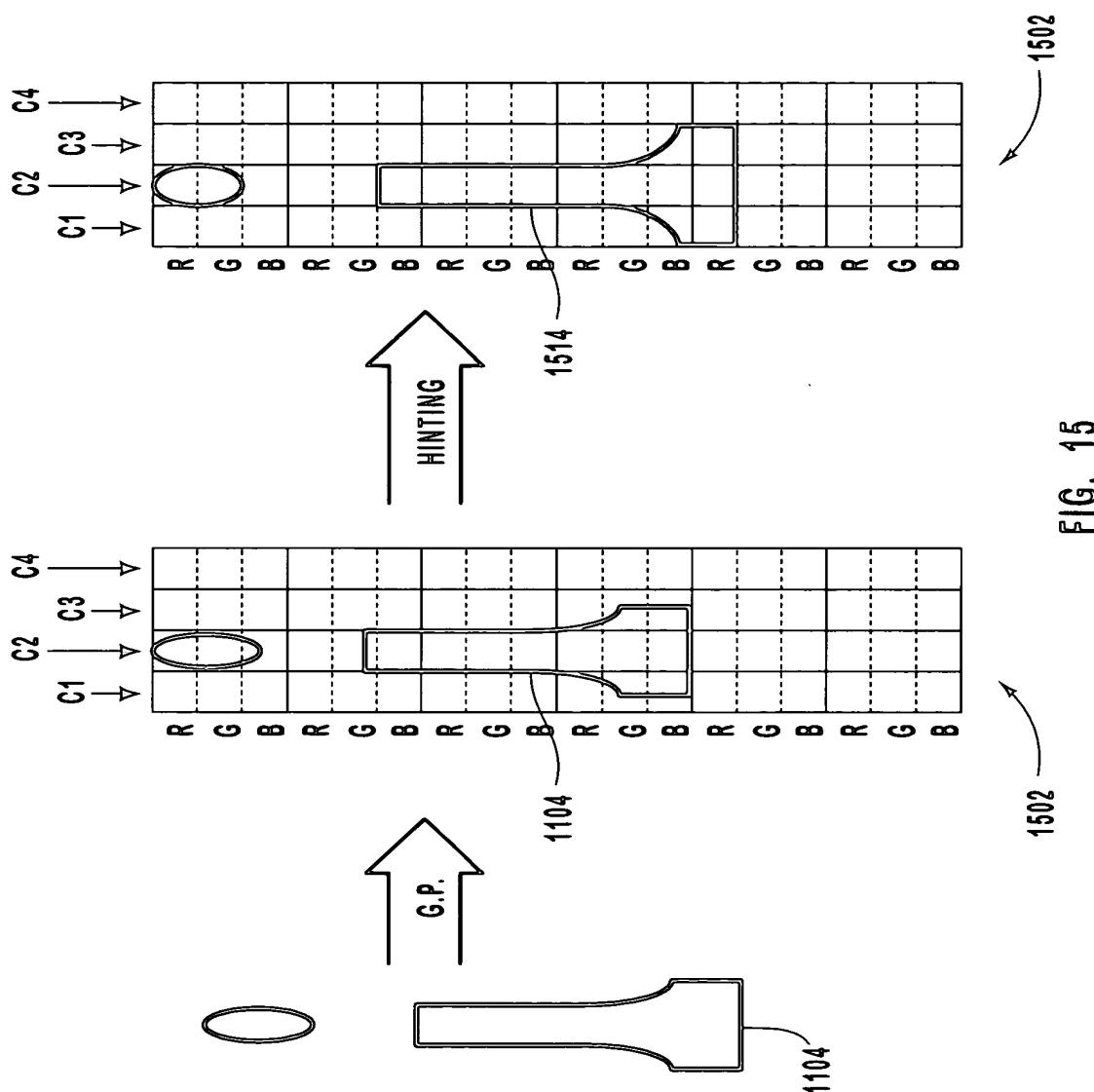


FIG. 14





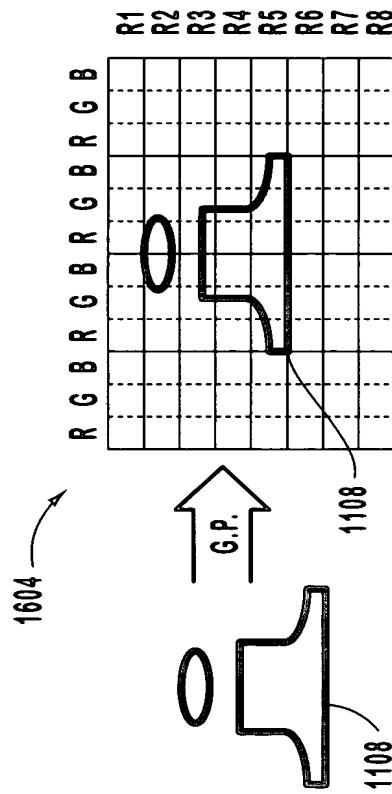
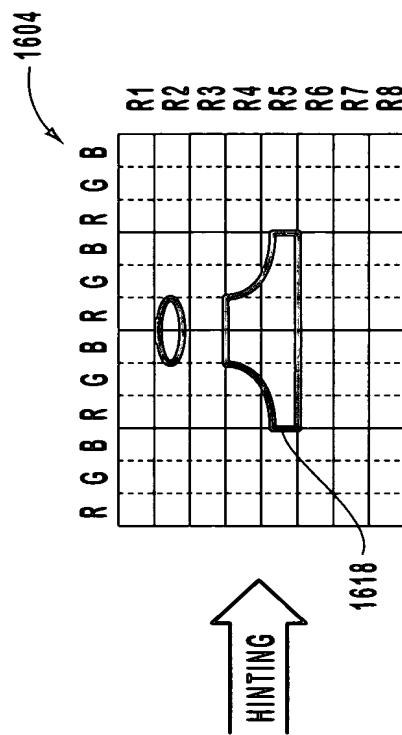


FIG. 16

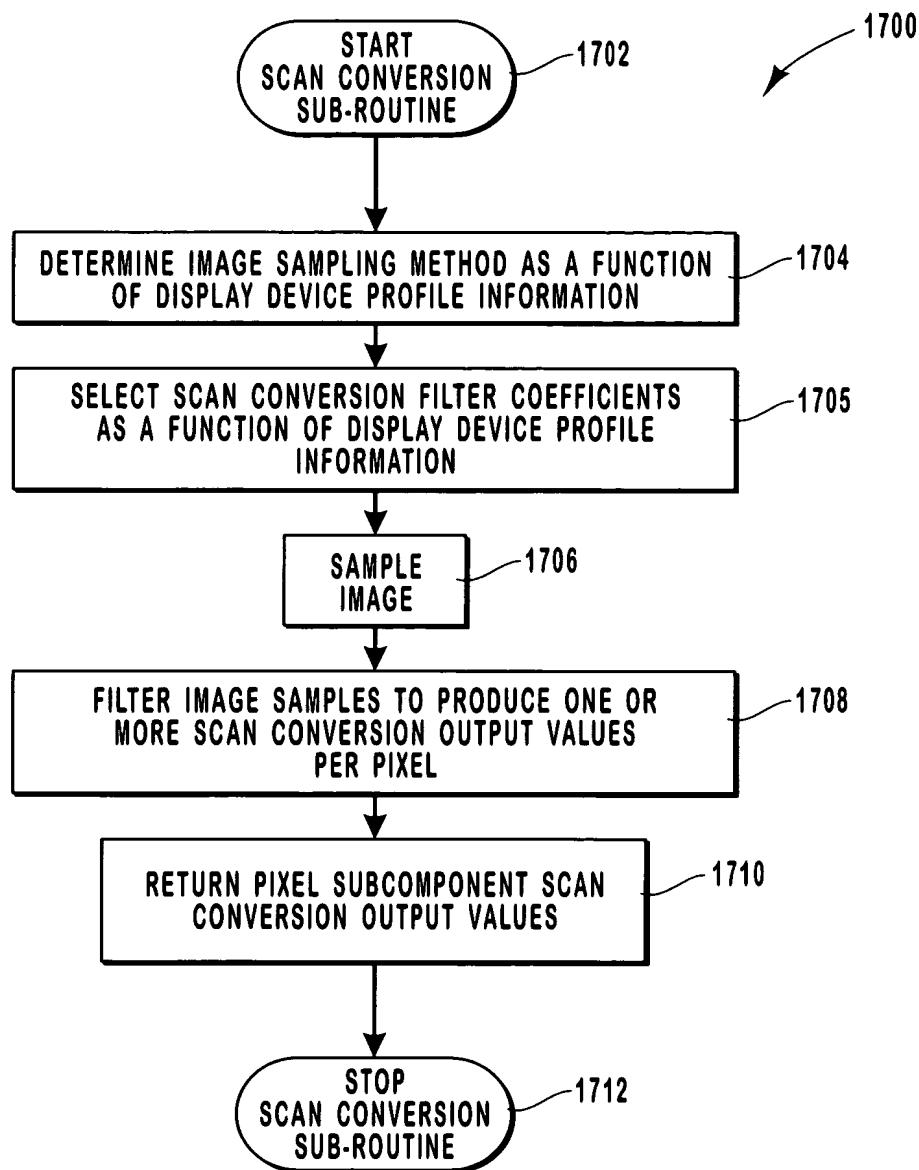


FIG. 17

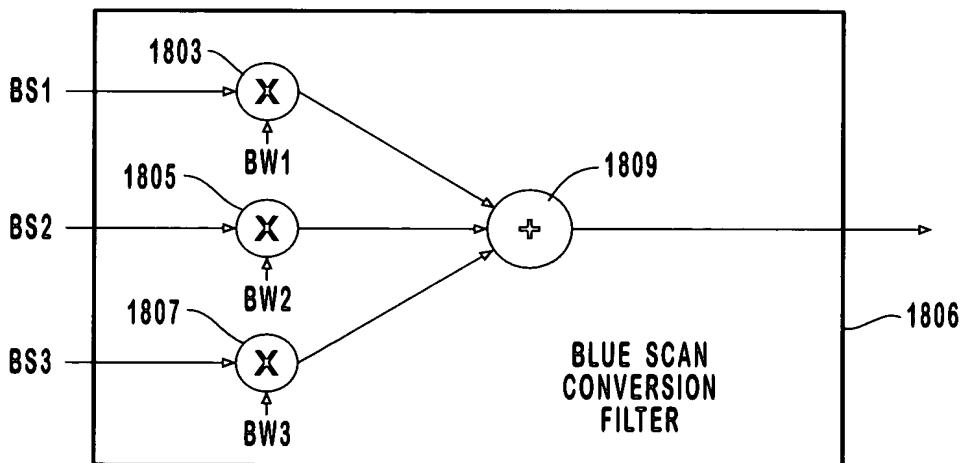
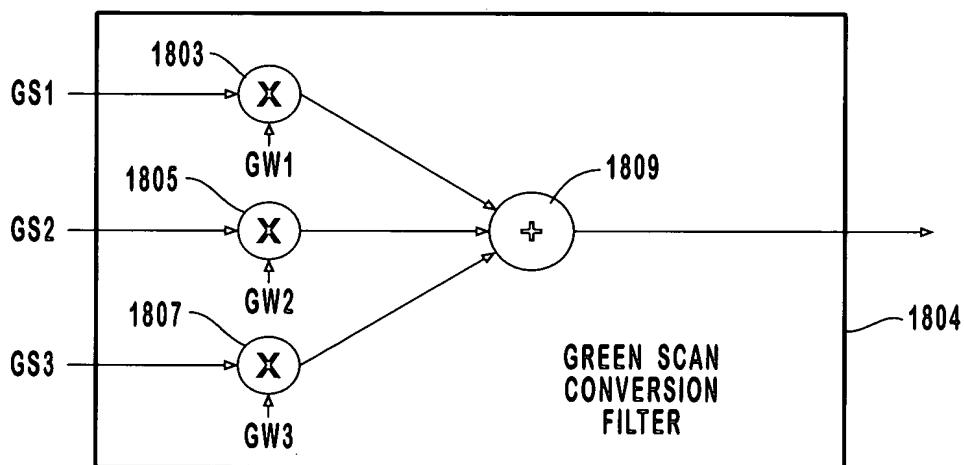
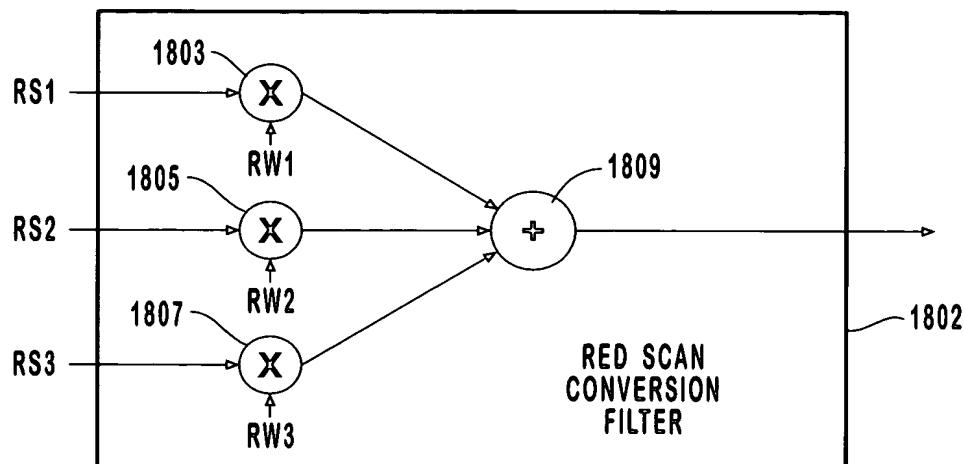


FIG. 18

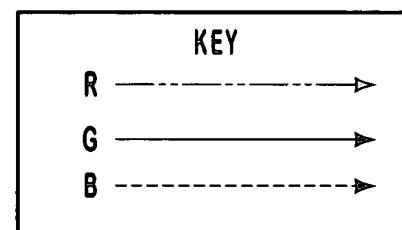
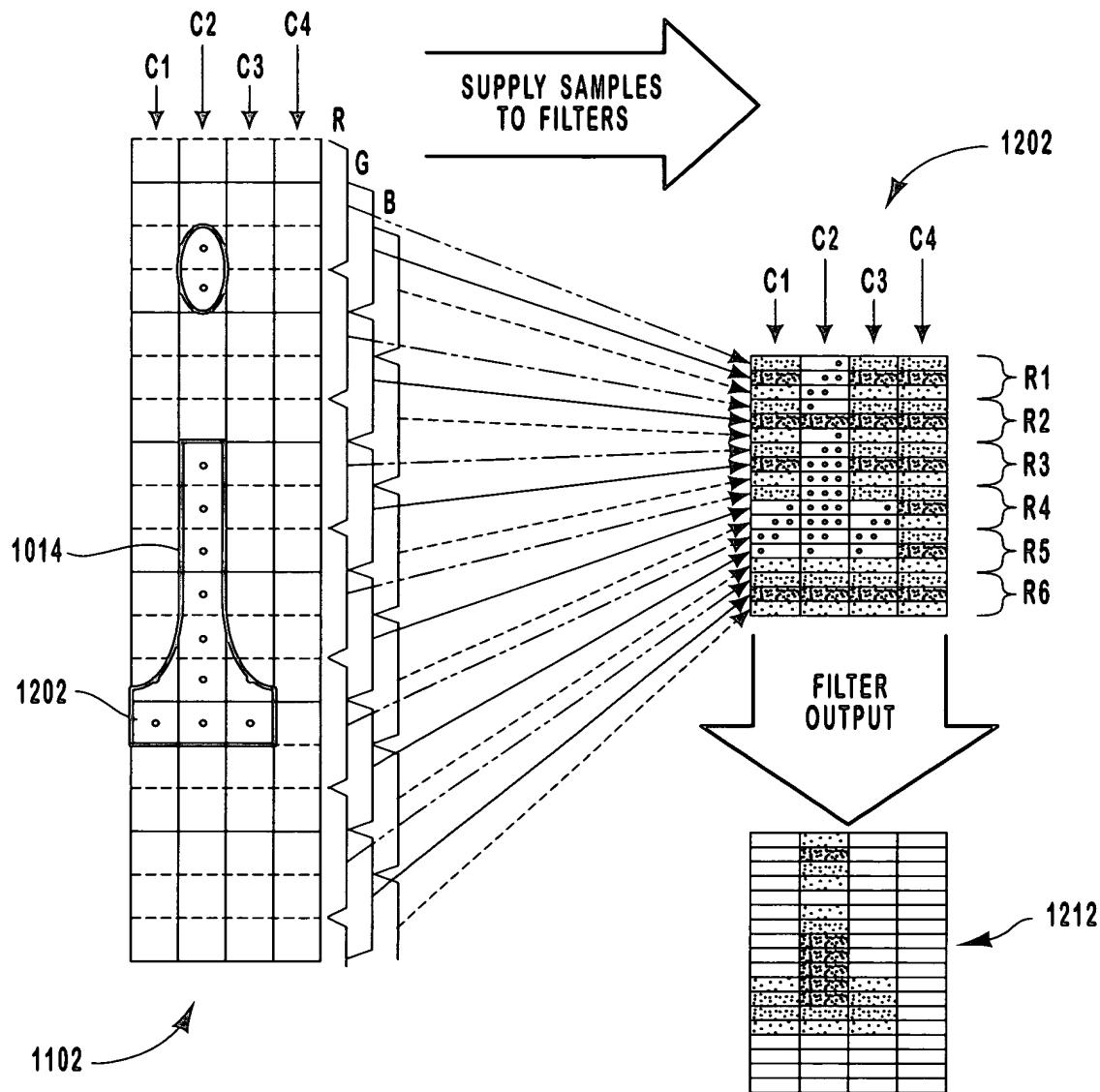


FIG. 19

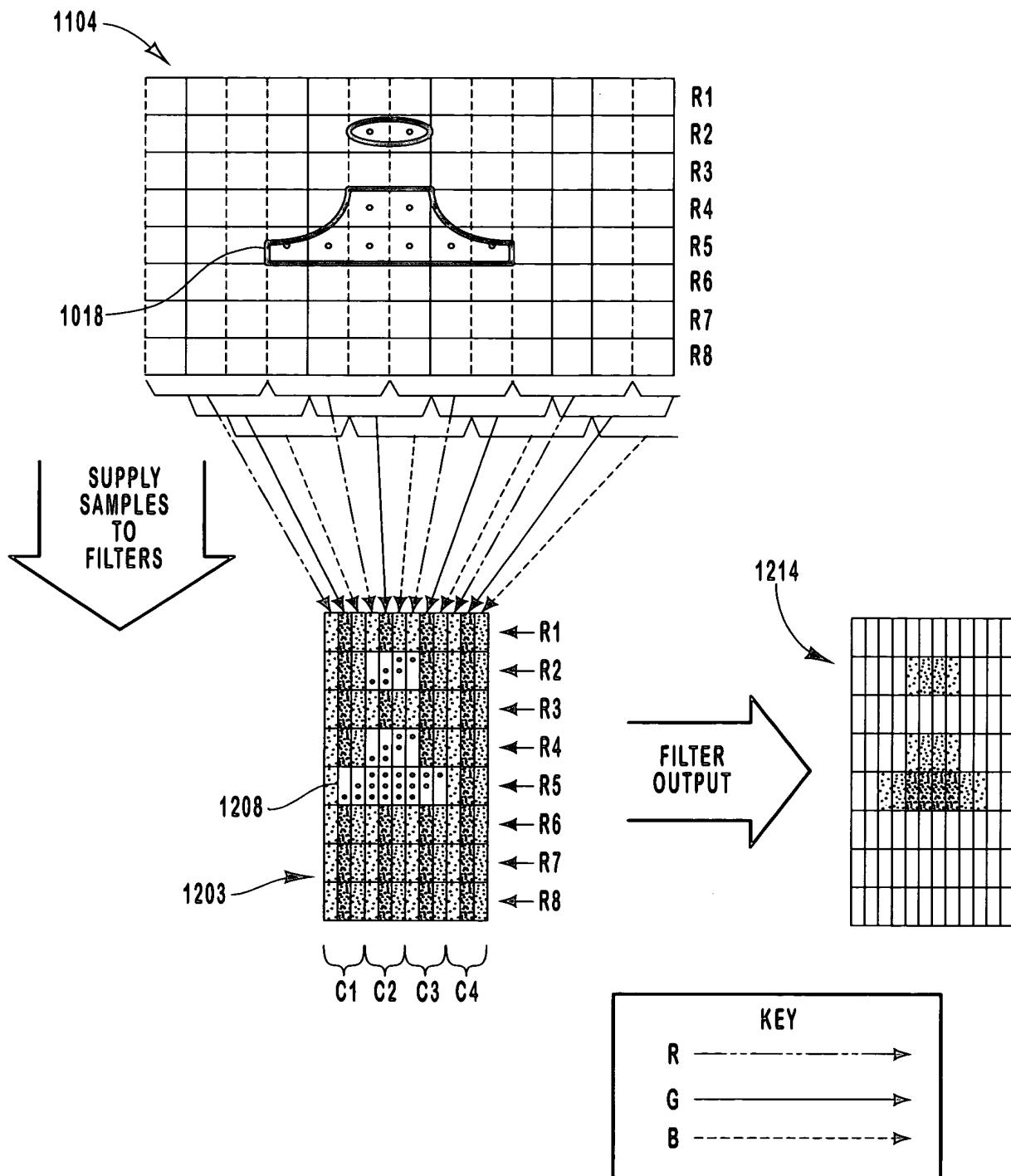


FIG. 20

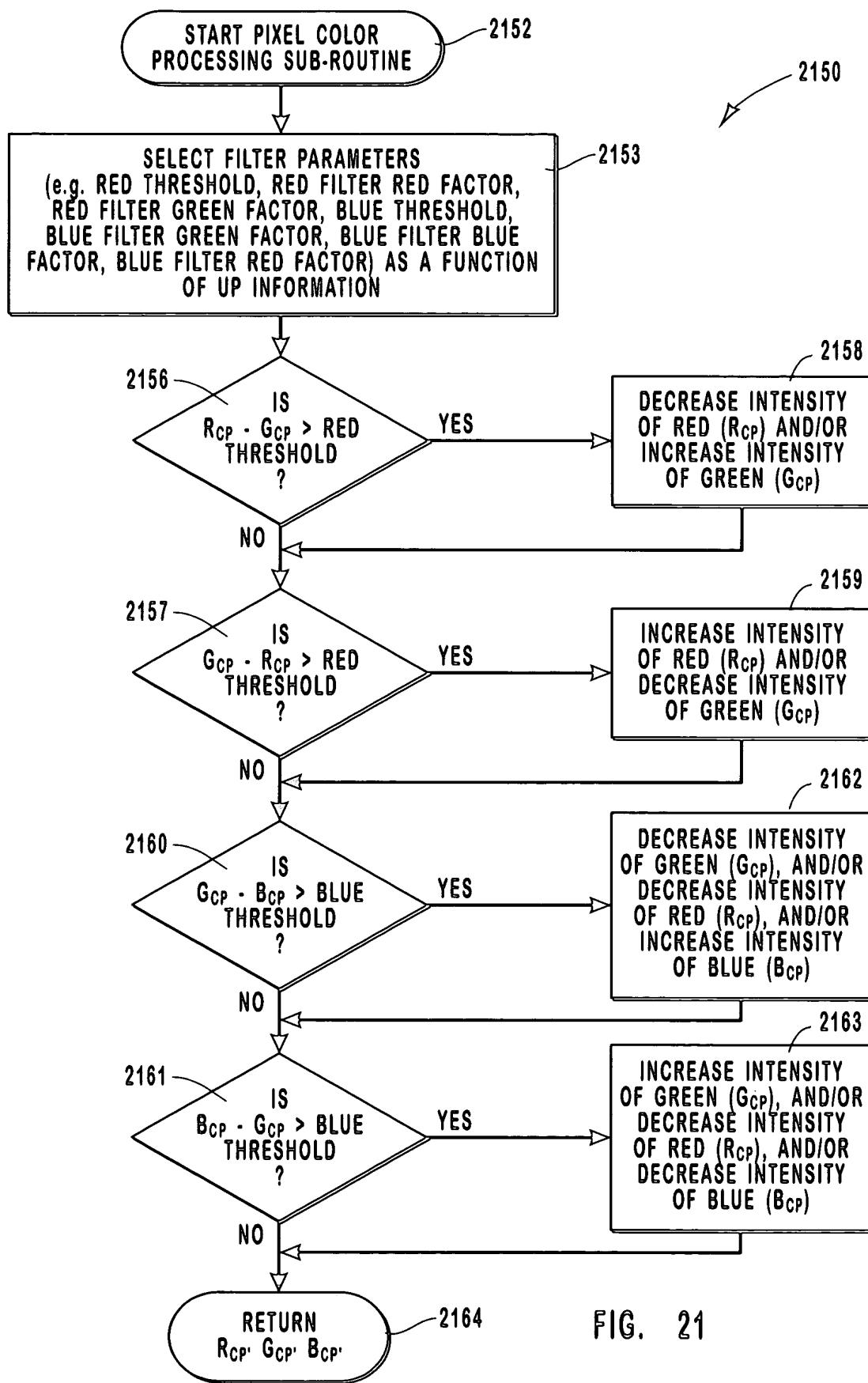


FIG. 21

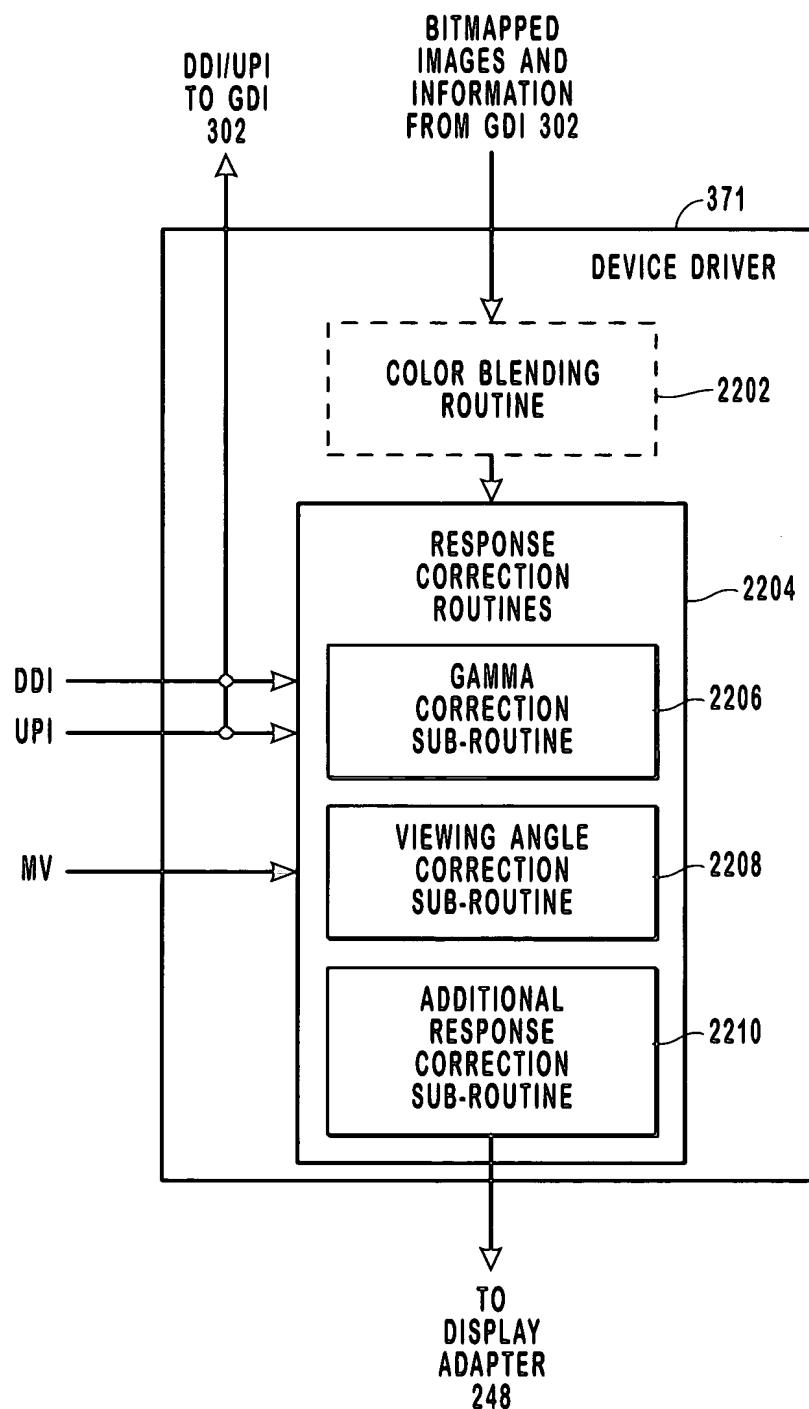


FIG. 22

FILTER 1		
RED FILTER	GREEN FILTER	BLUE FILTER
-0.000	0.000	0.000
-0.000	-0.000	0.000
0.001	-0.000	-0.000
-0.004	0.000	0.000
-0.001	0.000	0.000
0.011	-0.002	-0.001
-0.037	0.006	0.005
-0.015	0.001	0.002
0.109	-0.020	-0.014
-0.255	0.065	0.031
-0.231	0.028	0.029
0.632	-0.186	-0.075
0.576	0.383	-0.097
0.485	0.430	0.357
-0.378	0.458	0.630
0.051	-0.111	0.351
0.085	-0.108	-0.103
-0.039	0.075	-0.177
0.003	-0.009	0.040
0.009	-0.017	0.041
0.003	0.007	-0.027
0.000	-0.001	0.003
0.001	-0.002	0.006
-0.000	0.001	-0.003
0.000	-0.000	0.000
0.000	-0.000	0.001
-0.000	0.000	-0.000
-0.000	-0.000	0.000
0.000	-0.000	0.000
0.000	0.000	-0.000

CURRENT
PIXEL

2301

FIG. 23A

FIG. 23B

FIG. 23C

FIG. 23D

FIG. 23E

FIG. 23A

FIG. 23

FILTER 2		
RED FILTER	GREEN FILTER	BLUE FILTER
0.000	0.000	-0.000
0.000	0.000	0.000
-0.000	0.000	0.000
0.000	-0.000	-0.000
0.000	-0.000	-0.000
-0.000	0.000	0.000
-0.006	-0.001	0.000
0.004	-0.001	-0.001
0.034	-0.000	-0.003
-0.183	0.019	0.018
-0.147	-0.004	0.010
0.468	-0.093	-0.055
0.514	0.387	0.047
0.445	0.430	0.308
-0.170	0.408	0.514
0.009	-0.072	0.251
0.031	-0.089	-0.009
0.001	0.020	-0.119
-0.001	0.000	0.017
-0.000	-0.003	0.025
0.000	-0.001	-0.004
-0.000	0.000	-0.000
-0.000	0.000	0.001
0.000	-0.000	0.000
0.000	0.000	-0.000
-0.000	0.000	-0.000
-0.000	0.000	0.000
0.000	-0.000	-0.000
-0.000	0.000	-0.000

2302

	CURRENT PIXEL
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FILTER 3		
RED FILTER	GREEN FILTER	BLUE FILTER
0.000	-0.000	-0.000
0.000	-0.000	-0.000
0.000	0.000	-0.000
-0.000	0.000	0.000
-0.000	-0.000	0.000
-0.001	-0.000	-0.000
0.006	0.000	-0.000
0.009	0.001	-0.000
0.002	0.002	0.001
-0.121	-0.015	-0.001
-0.088	-0.026	-0.007
0.332	-0.022	-0.022
0.459	0.393	0.140
0.418	0.430	0.290
-0.002	0.367	0.412
-0.010	-0.048	0.190
-0.005	-0.075	0.040
0.002	-0.013	-0.059
-0.000	0.003	0.005
-0.000	0.003	0.011
-0.000	0.000	0.003
0.000	-0.000	-0.001
0.000	-0.000	-0.001
0.000	0.000	-0.000
-0.000	0.000	0.000
-0.000	0.000	0.000
-0.000	-0.000	-0.000
0.000	0.000	-0.000
0.000	0.000	-0.000
-0.000	0.000	0.000

2303

FIG. 23C

FILTER 4		
RED FILTER	GREEN FILTER	BLUE FILTER
0.000	0.000	0.000
0.000	0.000	0.000
-0.000	-0.000	-0.000
-0.001	-0.000	-0.000
-0.001	-0.000	-0.000
0.000	0.000	0.000
0.008	0.003	0.002
0.008	0.004	0.002
-0.007	-0.002	-0.001
-0.077	-0.037	-0.017
-0.051	-0.039	-0.019
0.237	0.026	0.008
0.419	0.398	0.197
0.401	0.429	0.285
0.113	0.338	0.337
-0.016	-0.035	0.153
-0.025	-0.066	0.065
-0.011	-0.031	-0.012
0.001	0.004	-0.000
0.002	0.006	0.001
0.001	0.003	0.001
-0.000	-0.000	-0.000
-0.000	-0.001	-0.000
-0.000	-0.000	-0.000
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
-0.000	-0.000	-0.000
-0.000	-0.000	-0.000
-0.000	-0.000	-0.000

2304

		CURRENT PIXEL
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FILTER 5		
RED FILTER	GREEN FILTER	BLUE FILTER
0.000	0.000	0.000
0.000	0.000	0.000
-0.000	-0.000	-0.000
-0.000	-0.001	-0.000
-0.000	-0.001	-0.000
0.001	0.001	0.000
0.006	0.006	0.004
0.006	0.006	0.003
-0.008	-0.007	-0.004
-0.050	-0.050	-0.029
-0.030	-0.047	-0.027
0.178	0.054	0.029
0.394	0.402	0.229
0.391	0.429	0.283
0.183	0.321	0.291
-0.018	-0.028	0.132
-0.037	-0.061	0.078
-0.023	-0.040	0.019
0.002	0.004	-0.002
0.005	0.008	-0.004
0.003	0.005	-0.003
-0.000	-0.000	0.000
-0.001	-0.001	0.001
-0.000	-0.001	0.000
0.000	0.000	-0.000
0.000	0.000	-0.000
0.000	0.000	-0.000
-0.000	-0.000	0.000
-0.000	-0.000	0.000
-0.000	-0.000	0.000

2305
CURRENT
PIXEL

FIG. 23E